

Figure 1

ATATTGCTGAGCTCAGGGAGTGAGGGCCCCACATTTAGACAGTGAGCCCCAAGAAGAGG	60
GATCCCTGCTCCAGCAGCTGCCAAGGTCAAGAAGAACAAAGATCCCAGGGAGGAAAATCTG	120
<u>M C</u>	2
CTGGAGACCCCTGTGCGGTTCTGCGCTTGGTCTATCTCTCTTATGTTCAAGCAGT	180
<u>W R P I C R P I W L M S Y I S Y Y V A V</u>	22
GCCTATCCAGAAAGTCAGGATGACACCAAAACCCCTCATCAAGACATTGTCACCCAGGAT	240
<u>P I Q K V Q D D T K T L I K T I V T R I</u>	42
CAATGACATTTACACACAGCAGTCGGTATCCGCAAGCAGGCACTGGCTTGGACTT	300
<u>N D I S H T Q S V S A K Q R V T G L D F</u>	62
CATTCTGGGCTTCACCCCATCTGAGTTTGTCAGATGGACACACTCTGGCAGTCTA	360
<u>I P G L H P I L S L S R M D Q T L A V Y</u>	82
TCAACAGGTCCTCACCAAGCTGCGCTTCCAAAATCTGCTGCCAGATGCCAATGACCTGGA	420
<u>Q Q V L T S L P S Q N V L Q I A N D L E</u>	102
GAATCTCCAGACCTCCATCTGCTGGCTTCTCCAAAGCTGCTCCCTGCCAGAC	480
<u>N L D L H L L A F S K S C S L P Q T</u>	122
CACTGGCCTGAGAACCCAGAGGCTGGATGGCGTCTGGAGGCCACTCTACTCCAC	540
<u>S G L Q K P E S L D G V L E A S L Y S T</u>	142
AGAGCTGGCTTGGACAGGCTGAGGGCTCTCTGGAGCATTCTCAACAGTTGGA	600
<u>E V V A L S R L Q G S L Q D I L Q O L D</u>	162
TGTTAGCCCTGAATGCTGAAGTTCAAGGCCACAGGCTCCAAAGAATCATCTAGAGGG	660
<u>V S P E C</u>	167
AAGAAACCTGGCTTCAGGGTCTTCAGGGAGAACAGAGGCCATGTGCACACATCCATCAT	720
TCATTTCTCCCTCTGTAGACCAACCCATCCAAGGCATGACTCCACAAATGCTGACTC	780
AAAGTATCCACACAACCTCATGACCAACAGGAGGGCCAGCTGCAGAGGGACTCTCAC	840
CTAGTTCTCAGCAAGTAGAGATAAGGCCATCCATCCCTCCATGTCCACCTGCTCC	900
GGGTACATGTTCTCCCTGGTACACGCTTGCCTGGCCAGGAGGGTAGGGAGAGG	960
TGGGTAGAGCTTGGCTGTCTAGAGTCTTGGGACCCGTGAAGGCTGCATCCACA	1020
CACAGCTGGAAACTCCCAAGCAGCACACGATGGAAGCATTATTTATTCTGCATTC	1080
TATTTGGATGGATCTGAAGCAAGGCATCAGCTTTTCAAGGCTTGGGGTCAGCCAGGA	1140
TGAGGAAGGCTCTGGGTCTGCTTCAATCTATTGATGGCTGCCAGGGAAACC	1200
TAATTTTGAGTGAATGGAGGAAGGTTGGATCTTCAAAACAGTCTATGGAGGTAG	1260
CCCTCAAGATTGACCTCTGGTGAATGTTTGTCTATTGTACTGACTCTATCCAAAC	1320
ACGTTTGCAGGGCATTGGGGAGCATAGCTAGGTATTATCAAAGCAGATGAATT	1380
TGTCAAGTGAATATGATCTATGTGACCTGAGGGTAGAGGATGTGTTAGAGGGAGGT	1440
GAAGGATCCCGAAGTGTCTGAAATTACATATGTTGAGGCTTCTGAAGGGTGA	1500
GGCATTTCTTACCTCTGGCCACATAGTGTGGCTTGTGAAGGACAAAGGAGTTGA	1560
CTCTTCCGGAACATTGGAGTGTACCAAGGCACCCCTGGAGGGCTAAAGCTACAGGCT	1620
TTTGGCATATTGCTAGCTCAGGGAGTGAGGGCCACATTGAGACAGTGAGCCCC	1680
AAAGAAAGGCTCTGGTGAATCTCAAGGTTGTCCAGGGTTGATCTCACAAATGGTT	1740
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CACTTAGCAGATGGCTCTAGCCCTGGGGCAGCAGTGTAGGAACTGCCAGGGCCCCAG	1920
GCCAGCTGCCAGAATTGCCCTCGGGCTGGAGGATGAACAAAGGGCTGGTTTCC	1980
ATCACCCCTGCACCCATCTCACCATCAAACCTGGGGCAGATCAGTGACAGGACACTG	2040
ATGCAAACCAATACACTTAAGACTGACCAACAGTTCTGCTAGCTCTGCTGCTG	2100
TGAGCTAGAGAAGCTCACCAACATACATATAAAACAGAGGCTCATGTCCTCTGTTAG	2160
ACCCCTACTCGCGGGCGGTGACTCCACCAACAGCAGCACCCACGGCTGGAAGTACAGTGT	2220
CTCTCAACAGGTGTAAAGAACCTGAGCTGAGGGTGACAGTGTCCCAGGGAAACCTGCT	2280
TGCACTTATGGCATTTACATACCCATTCTAGGGCACATTAGCATCCATCTTATGGTA	2340
GCACACTGGTCAACATTAGCACAAGGGATAGGGTTGACTATCCCTTATCCAAATGCTT	2400
GGACTAGAAGAGTTGGATTAGCTTCTCAGGCTAGGTATATTGAGTATAT	2460
AAAATGAGATATCTGGGATGGGGCCAAAGTATAAACATGAAGTTCATTATATTCTAT	2520
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GCATGAAGACGTTTACAGCATGAACCTGTACTCATGCCAGCACTAAAAACCTTG	2640
GGGTTTGGACCAAGTTGGATCTGGGTTCTGTAAAGAGATGGTAGCTTACCTAA	2700
AACCATATAAGCCAAACAGGCTGAGGACACACTGAGATCTCAGCCCTGAAGTGTCC	2760
TCCAGCCAGGTCAACCCCTGTGGAGGTGAGGGGATCAGGTTTCTGGTCTAACAGAGG	2820
AGTGGAGGTAGATTGGAGGATCTGAGGGC	2852

Figure 2

---G--GTTG CAAGGCCAA GAAGCCA--	-TCCTGGGAA GGAAAATGCA	50
TTGGGGAACC CTGTG-CGGA TTCTTGTGGC TTTGGCCCTA TCTTTCTAT		100
GTCCAAGCTG TGCCCATCCA AAAAGTCCAA GATGACACCA AAACCCTCAT		150
CAAGACAATT GTCACCAGGA TCAATGACAT TTCACACACG CAGTCAGTCT		200
CCTCCAAACA GAAAGTCACC GGTTGGACT TCATTCTGG GCTCCACCCC		250
ATCCTGACCT TATCCAAGAT GGACCAGACA CTGGCAGTCT ACCAACAGAT		300
CCTCACCAGT ATGCCTTCCA GAAACGTGAT CCAAATATCC AACGACCTGG		350
AGAACCTCCG GGATCTTCTT CACGTGCTGG CCTTCTCTAA GAGCTGCCAC		400
TTGCCCTGGG CCAGTGGCCT GGAGACCTTG GACAGCCTGG GGGGTGTCCT		450
GGAAGCTTCA GGCTACTCCA CAGAGGTGGT GGCCCTGAGC AGGCTGCAGG		500
GGTCTCTGCA GGACATGCTG TGGCAGCTGG ACCTCAGCCC TGGGTGCTGA		550
GGCCTTGAAG GTCACTCTTC CTGCAAGGAC T-ACGTTAAG GGAAGGAACT		600
CTGGTTTCCA GGTATCTCCA GGATTGAAGA GCATTGCATG GACACCCCTT		650
ATCCAGGACT CTGTCAATT CCCTGACTCC TCTAAGCCAC TCTTCCAAAG		700
G		701

Figure 4

Mouse	MCWRPLCRFL WLWSYLSYVQ AVPIQKVQDD TKTLIKTIVT RINDISHTQS	50

Human	MHWGTLCGFL WLWPYLFYVQ AVPIQKVQDD TKTLIKTIVT RINDISHTQS	
Mouse	VSAKQKVTGL DFIPGLHPIL SLSKMDQTLA VYQQVLTSLP SQNVLQIAND	100
	*	
Human	VSSKQKVTGL DFIPGLHPIL TLSKMDQTLA VYQQILTSMP SRNVIQISND	
Mouse	LENLRDLLLHL LAFSKSCSLP QTSGLQKPE* LDGVLEASLY STEVVALSRL	150

Human	LENLRDLLLHV LAFSKSCHLP WASGLETLDS LGGVLEASGY STEVVALSRL	
Mouse	QGSLQDILQQ LDVSPEC	167

Human	QGSLQDMLWQ LDLSPGC	

Figure 5

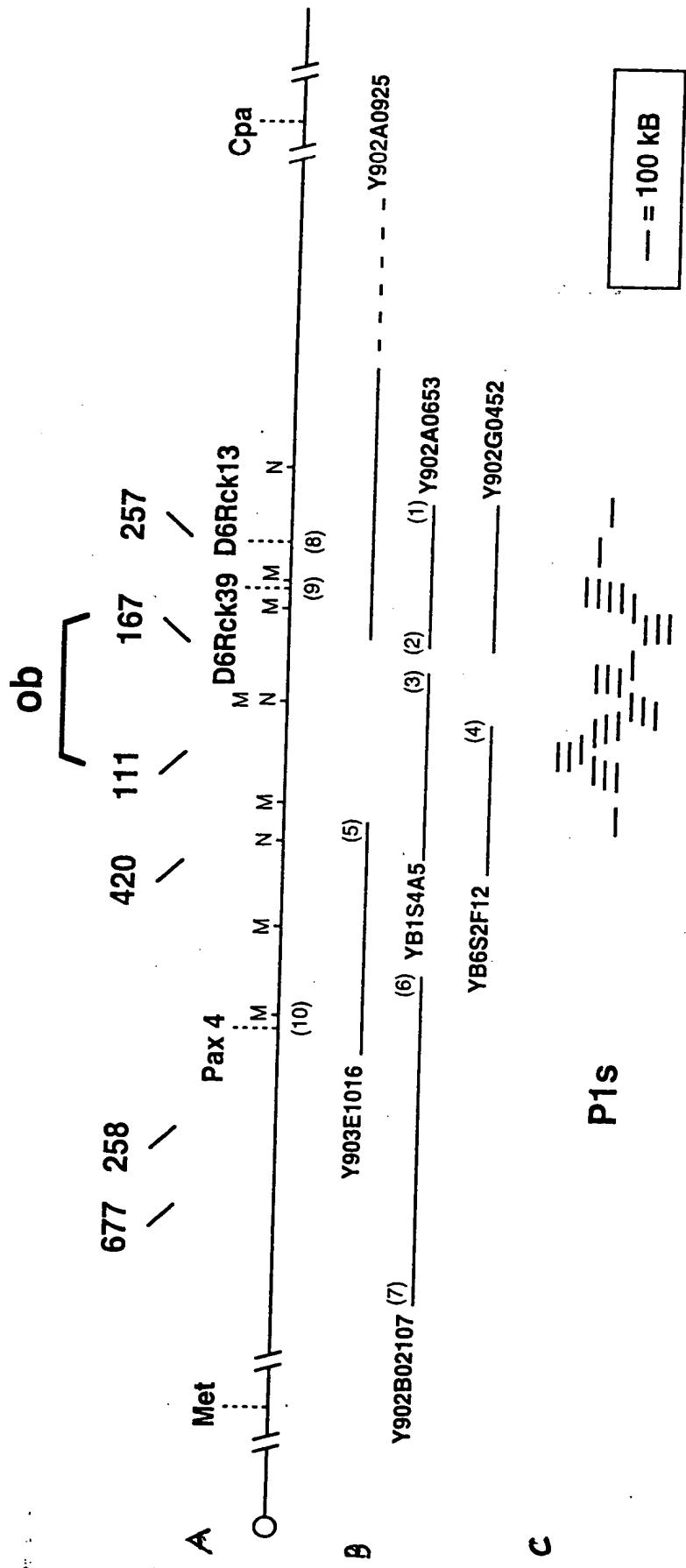
1 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr
16 Leu Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp
31 Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile
46 Ser His Thr Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp
61 Phe Ile Pro Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp
76 Gln Thr Leu Ala Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser
91 Gln Asn Val Leu Gln Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp
106 Leu Leu His Leu Leu Ala Phe Ser Lys Ser Cys Ser Leu Pro Gln
121 Thr Ser Gly Leu Gln Lys Pro Glu Ser Leu Asp Gly Val Leu Glu
136 Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg Leu Gln
151 Gly Ser Leu Gln Asp Ile Leu Gln Leu Asp Val Ser Pro Glu
166 Cys End

Figure 6

1 Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr
16 Leu Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp
31 Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile
46 Ser His Thr Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp
61 Phe Ile Pro Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp
76 Gln Thr Leu Ala Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser
91 Arg Asn Val Ile Gln Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp
106 Leu Leu His Val Leu Ala Phe Ser Lys Ser Cys His Leu Pro Trp
121 Ala Ser Gly Leu Glu Thr Leu Asp Ser Leu Gly Gly Val Leu Glu
136 Ala Ser Gly Tyr Ser Thr Glu Val Val Ala Leu Ser Arg Leu Gln
151 Gly Ser Leu Gln Asp Met Leu Trp Gln Leu Asp Leu Ser Pro Gly
166 Cys End

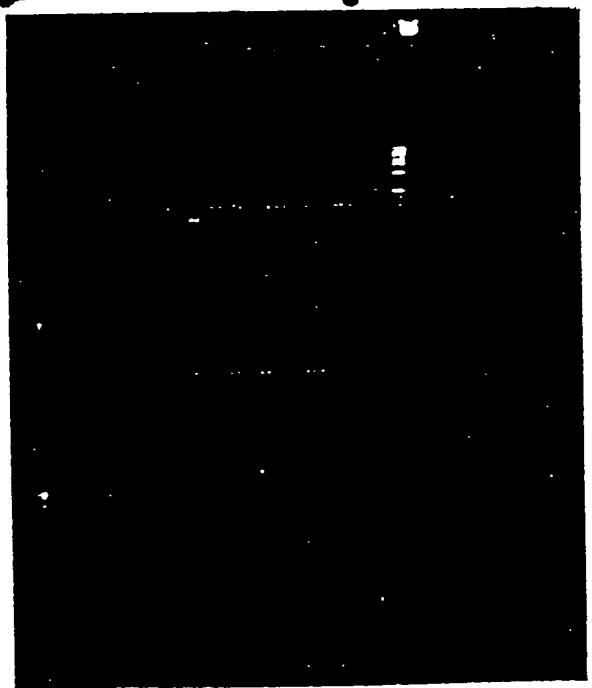
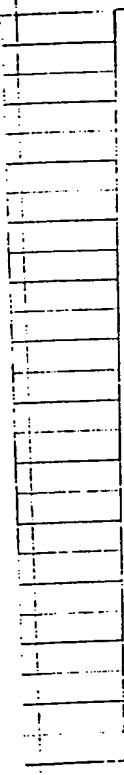
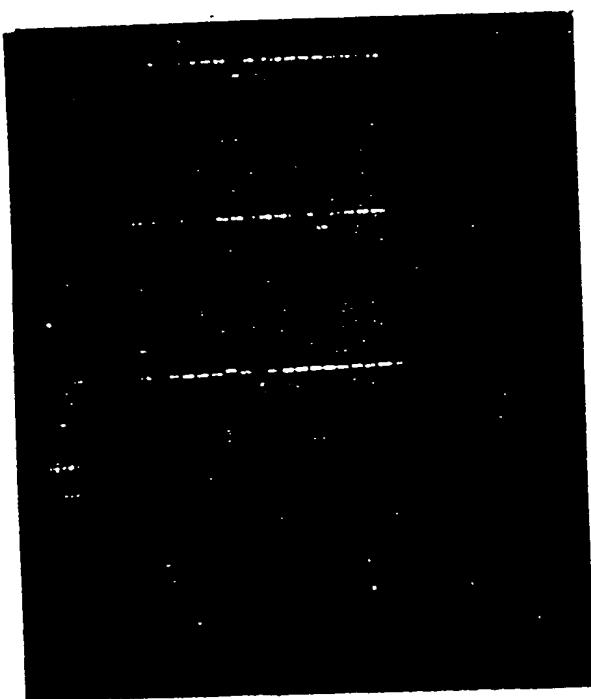
600-1-087 CIP (Set 7 of 31)

Figure 7



70-1-087 CIP (Sheet - 8 of 31)

Figure 8



600-1-087 CIP (Sheet 9 of 31)

Figure 9

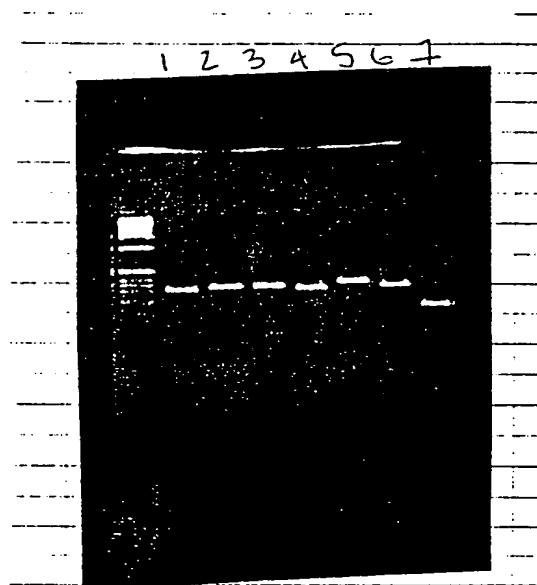
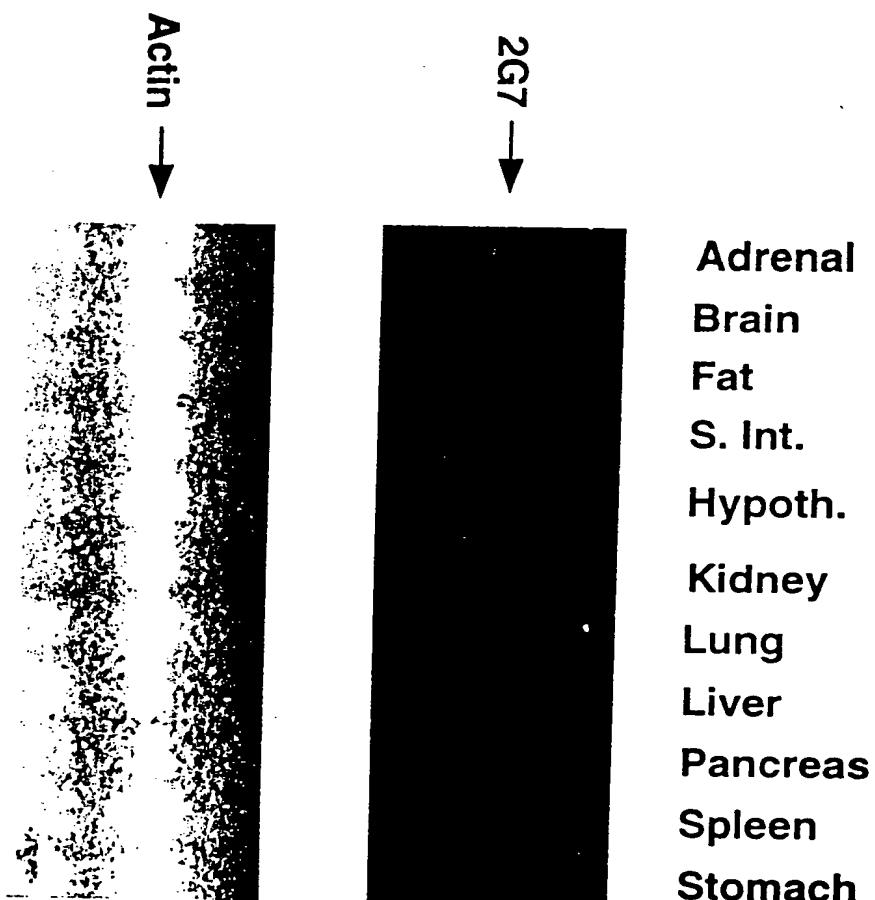


Figure 10

+10 +20 +30 +40
 GTGCAAGAAG AAGAAGATCC CAGGGCAGGA AAATGTCTG GAGACCCCTG
 1
 CACGTTCTTC TCTTCTAGG GTCCCCGTCCT TTTACACGAC CTCTGGGGAC
 +10 +20 +30 +40
 TGTCGGGTCC NGTGGNTTTG GTCCTATCTG TCTTATGTNC AAGCAGTGCC
 51
 51
 ACAGCCCCAGG NCACCNAAAC CAGGATAGAC AGAATACANG TTCGTCACGG
 +10 +20 +30 +40
 TATCCAGAAA GTCCAGGATG ACACCAABAG CCTCATCAAG ACCATTGTCA
 101
 101
 ATAGGTCTTT CAGGTCCCTAC TGTGGTTTTC GGAGTAGTTC TGGTAACAGT
 +10 +20 +30 +40
 NCAGGATCAC TGANATTCA CACACGG
 151
 151
 NGTCCTAGTG ACTNTAAAGT GTGTGC

Figure 11A



90-1-087 CIP (Shee. 12 of 31)

Figure 11B

18S 28S

white fat

brain

small intestine

stomach

pancreas

lung

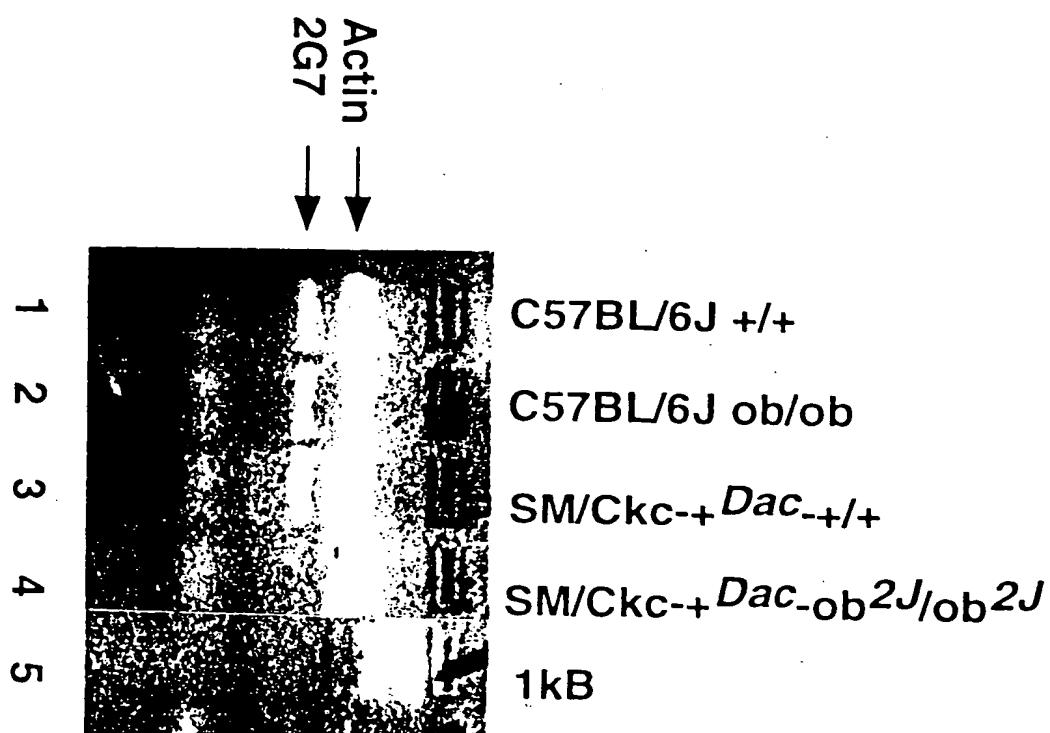
testis

heart

spleen

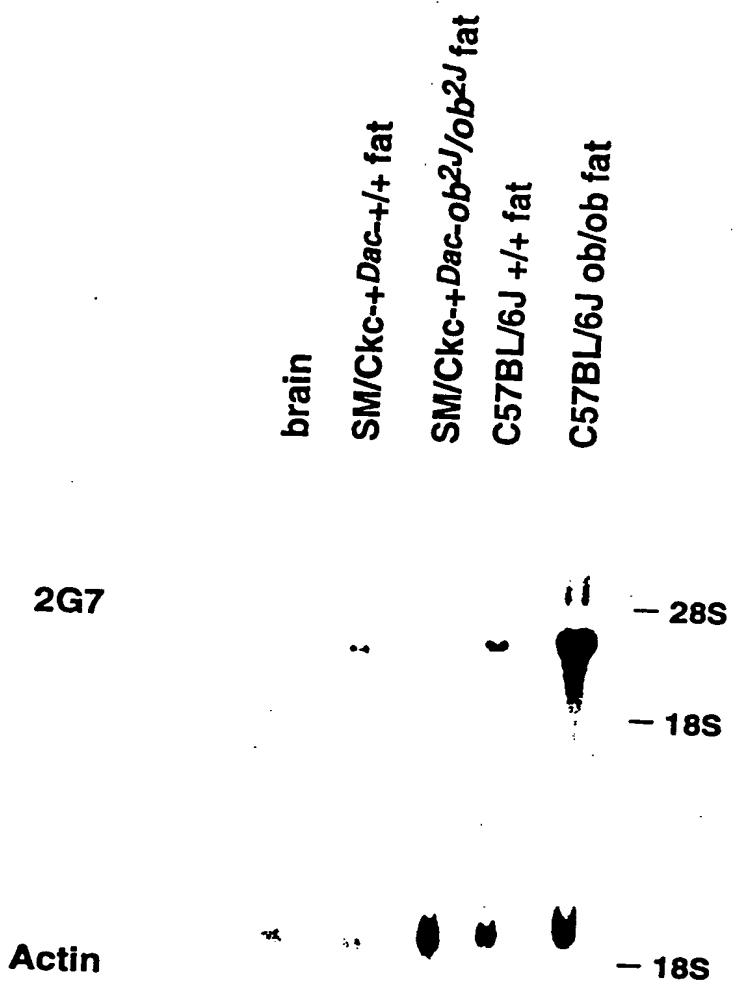
liver

Figure 12A



100-1-087 CIP (set 14 of 31)

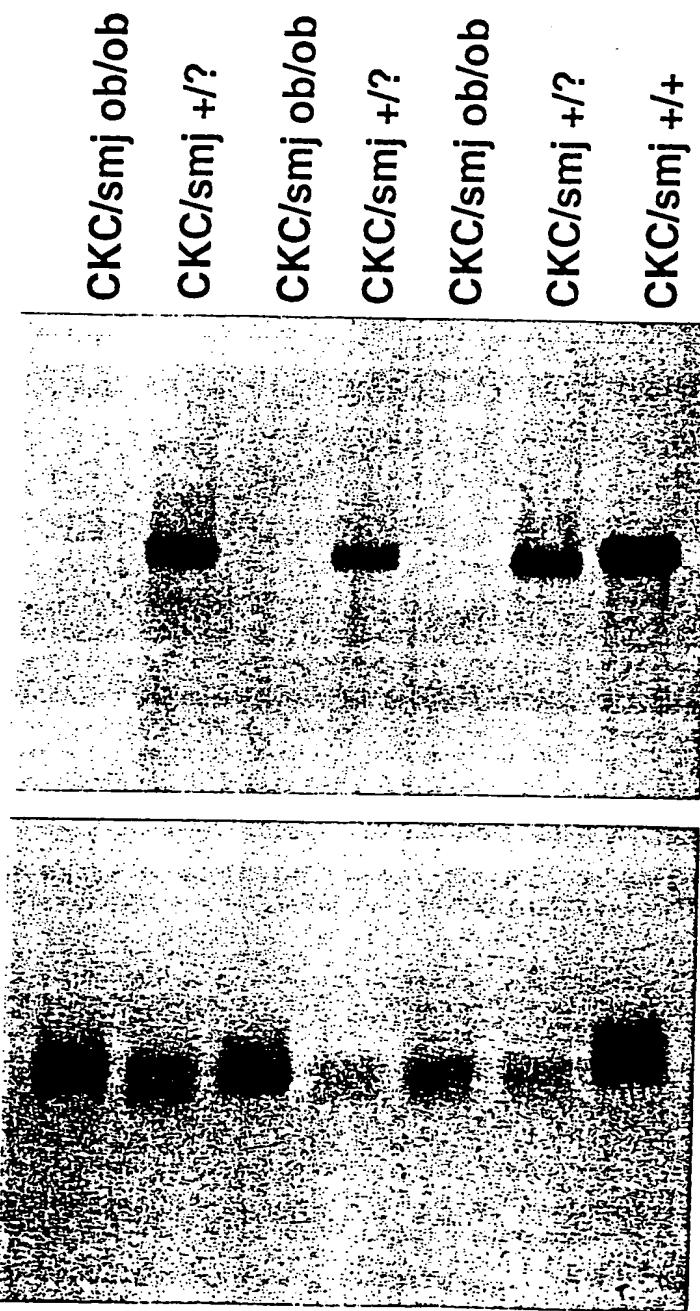
Figure 12 B



600-1-087 CIP (sl + 15 of 31)

Figure 13

2G7



ap2

100-1-087 CIP (Sheet 16 of 31)

Figure 14

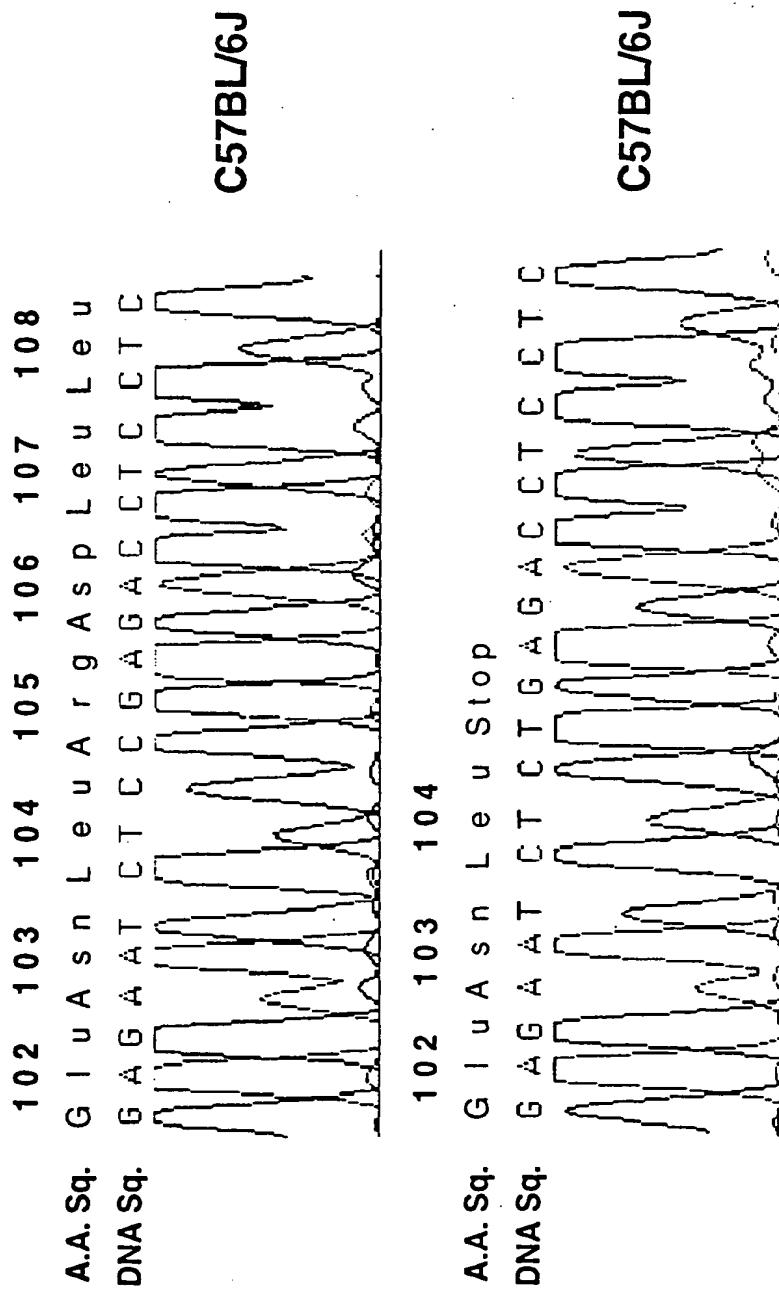


Figure 15A

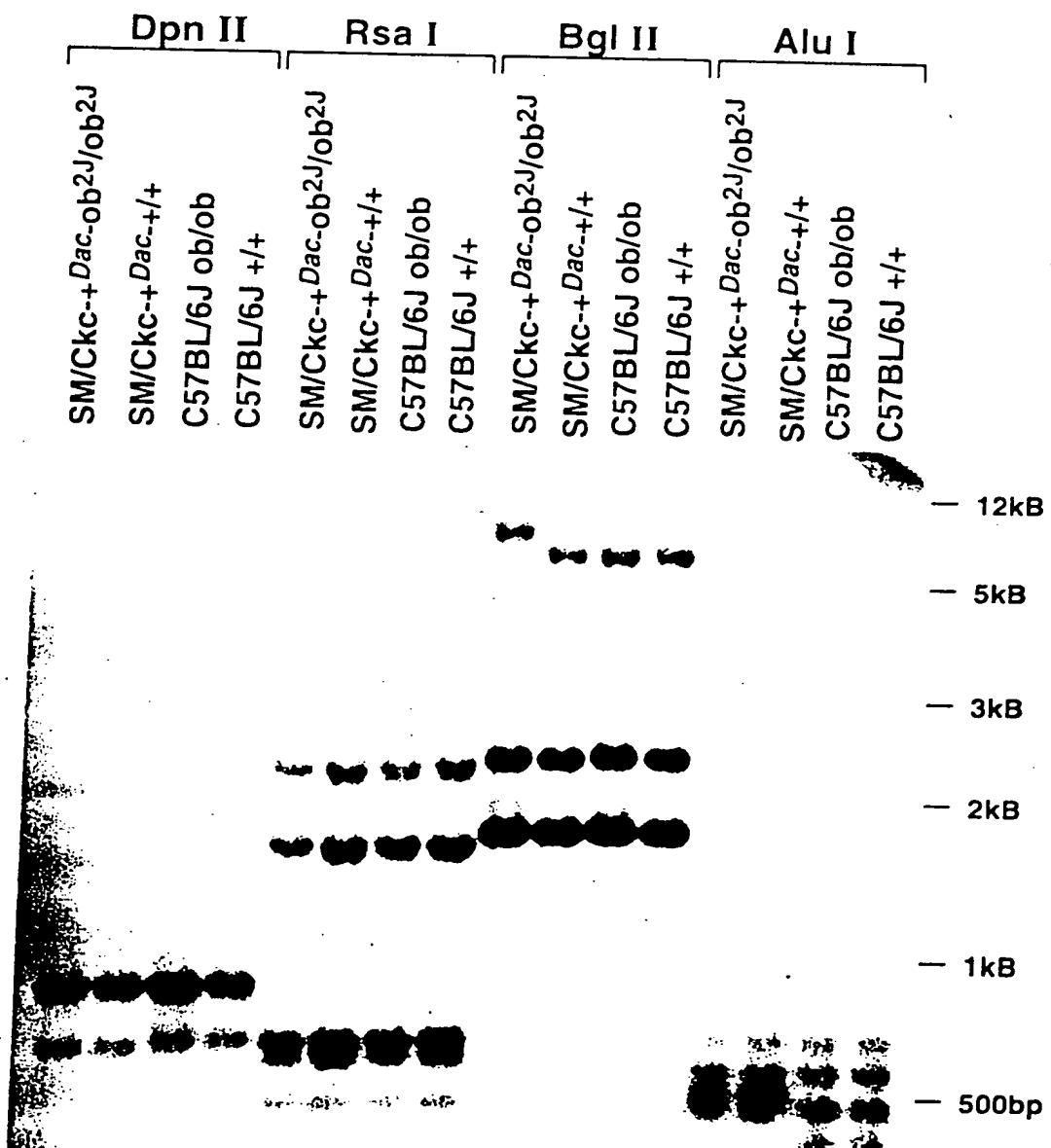


Figure 16

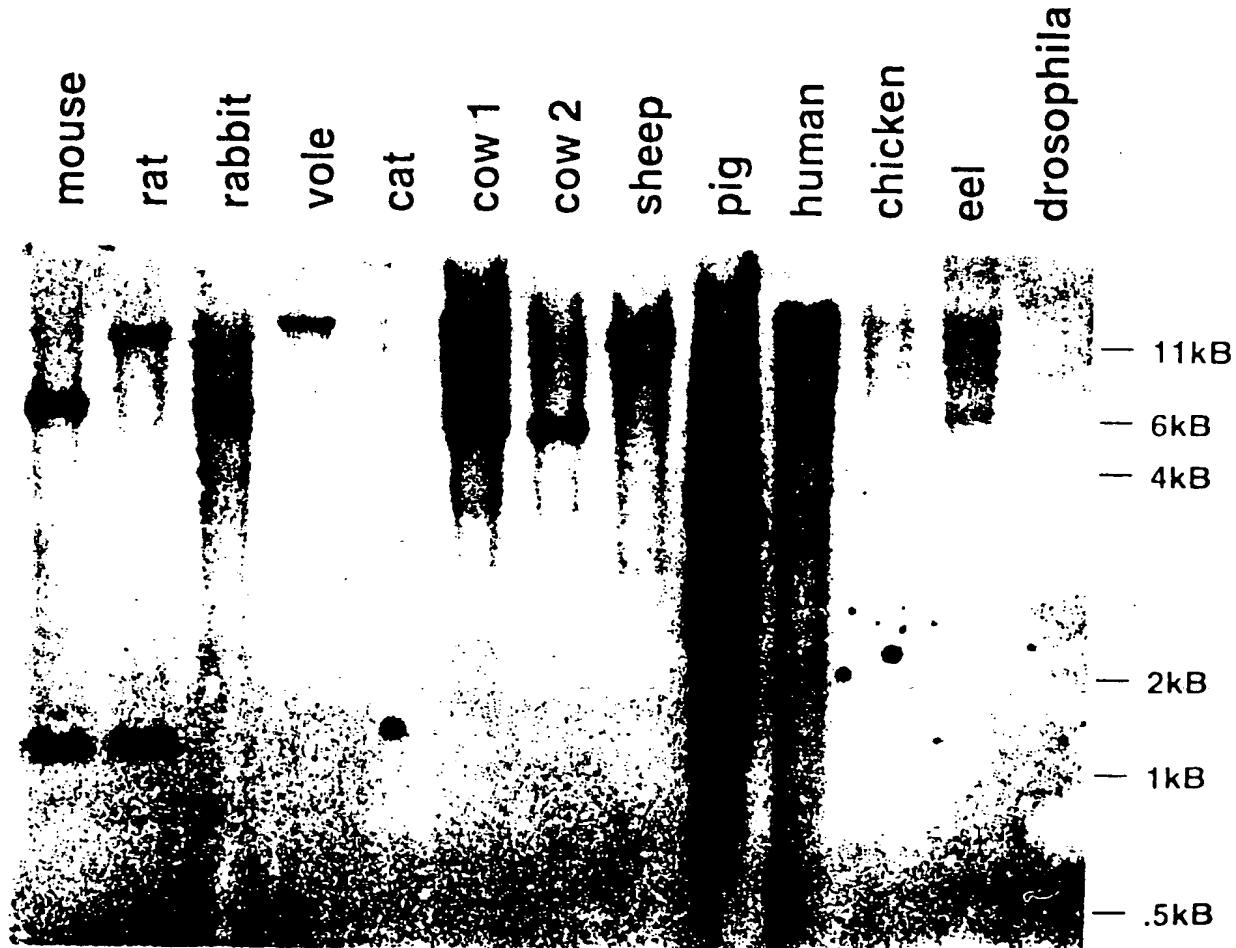


Figure 15B

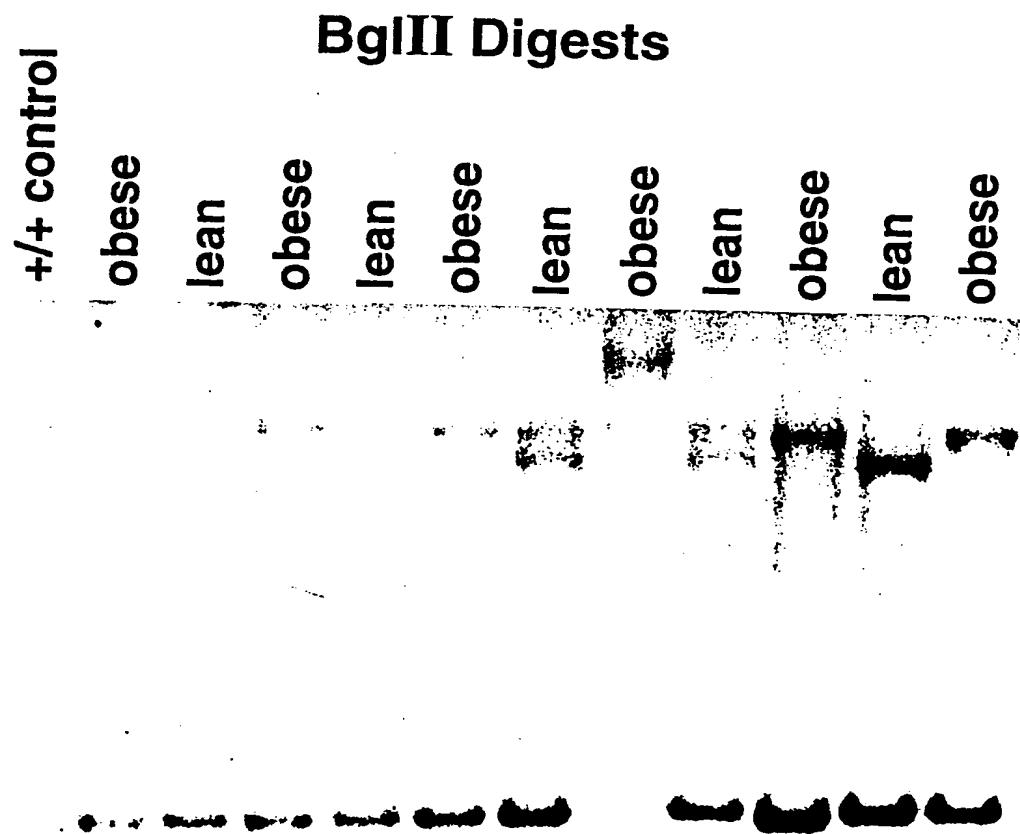
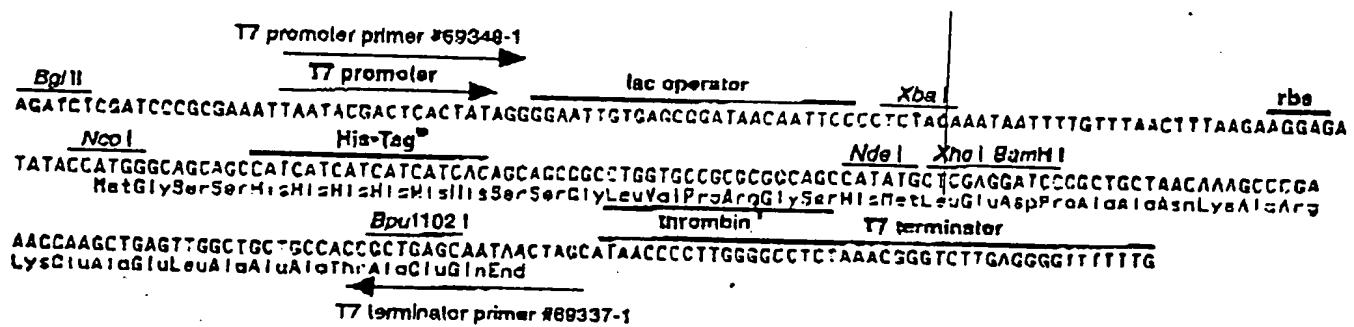
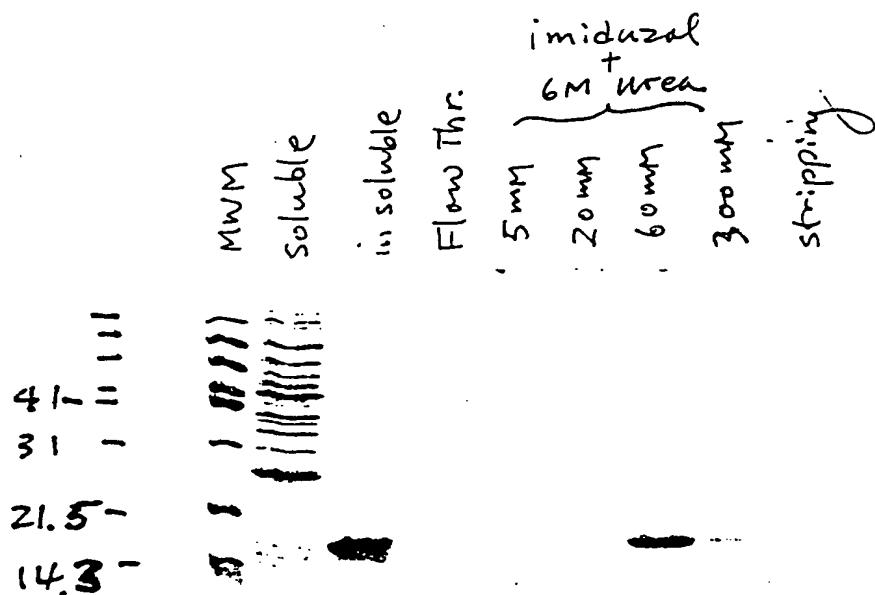


Figure 17



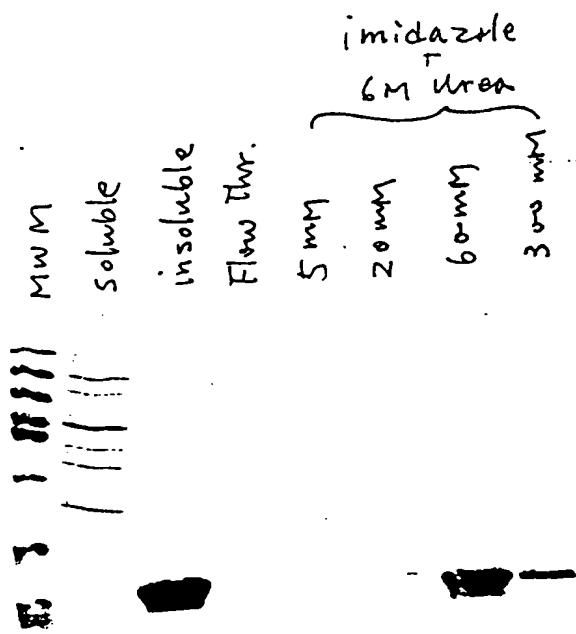
600-1-087 CIP (Sheet 21 of 31)

Figure 18 A



7600-1-087 CIP (Sh + 22 of 31)

Figure 18B



700-1-087 CIP (sheet 23 of 31)

Figure 19A

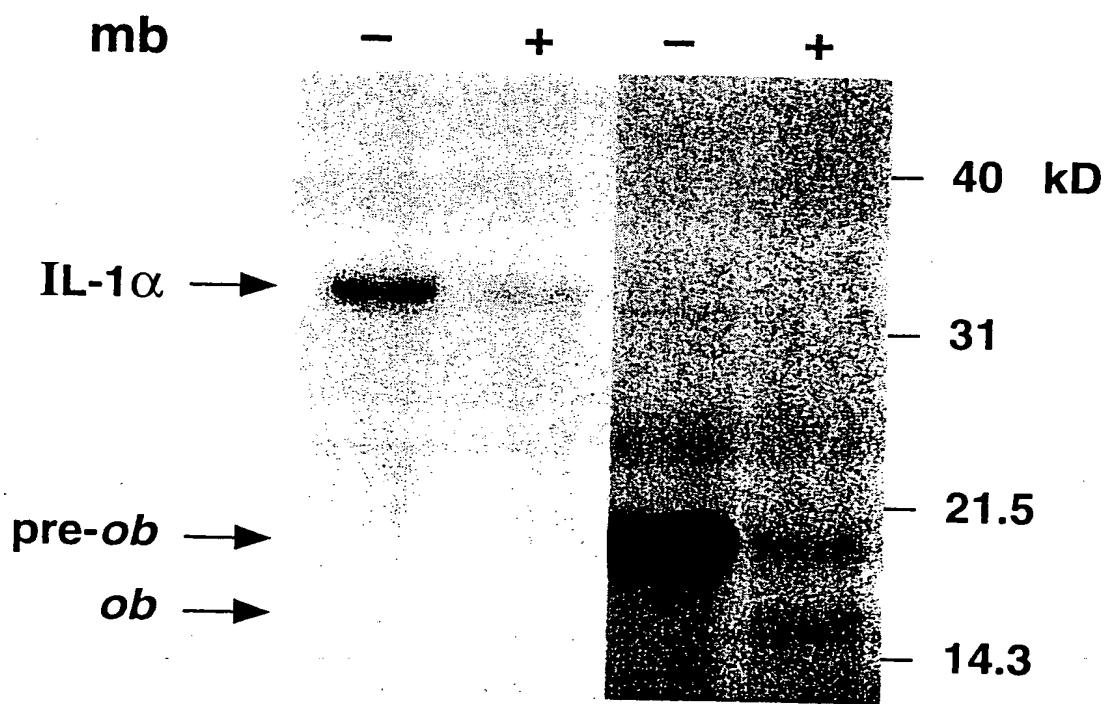


Figure 19B

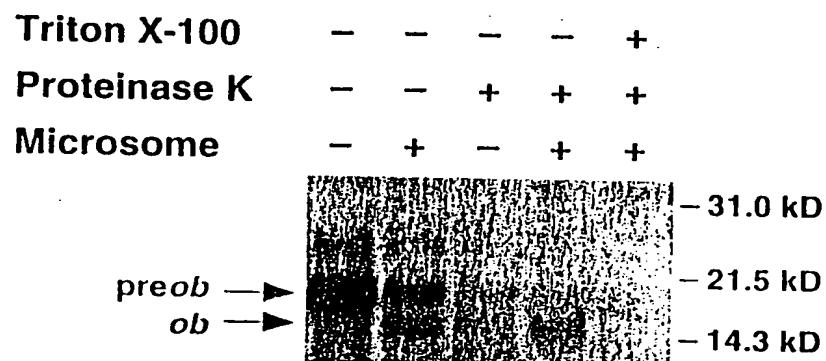


Figure 20A

10	20	30	40	50
GGTTGCAAGG CCCAAGAAGC CCATCCTGGG AAGGAAATG CATTGGGGAA				
60	HoB 2g F	70	80	90
START				
100				
CCCTGTGCGG ATTCTTGCTGG CTTTGGCCCT ATCTTTCTA TGTCCAAGCT				
110	120	130	140	150
GTGCCCATCC AAAAAGTCCA AGATGACACC AAAACCCCTCA TCAAGACAAT				
160	170	180	190	200
5' of 1st INTRON				
TGTCAACCAGG ATCAATGACA TTTCACACAC GCTAAGGAGA GTATGCGGGG				
210	220	230	240	250
ACAAAGTAGA ACTGCAGCCA GCCCAGCACT GGCTCCTAGT GGCACTGGAC				
260	270	280	290	300
HoB 2g F				
CCAGATAGTC CAAGAACAT TTATTGAACG CCTCCTGAAT GCCAGGCACC				
310	320	330	340	350
TACTCCAAGC TGAGAAGGAT TTTGGATAGC ACAGGCCTCC ACTCTTTCTG				
360	370	380	390	400
GTTGTTCTT NTGGCCCCCT CTGCCTGCTG AGATNCCAGG GGTTAGNGGT				
410	420	430	440	450
TCTTAATTCC TAAA - VS GAP OF SEQUENCE (~ 1.4 Kb) - CT				
460	470	480	490	500
GGTTCTTC GGAAGAGGCC ATGTAAGAGA AAGGAATTGA CCTAGGGAAA				
510	520	530	540	550
ATTGGCCTGG GAACTGGAGG GAACGGATGG TGTGGGAAA GCAGGAATCT				
560	570	580	590	600
CGGAGACCACT TTAGAGGGCT TGGCAGTCAC CTGGGTGCAG GANACAAGGG				
610	620	630	640	650
CCTGAGCCAA AGTGGTGAGG GAGGGTGGAA GGAGACAGCC CAGAGAACATGA				
660	670	680	690	700
CCCTCCATGC CCACGGGGAA GGCAGAGGGC TCTGAGAGCG ATTCCCTCCC				
710	720	730	740	750
3' of 1st INTRON				
CATGCTGAGC ACTTGTCTC CCTCTTCCTC CTNCATAGCA GTCAGTCTCC				
HoB 2g F	760	770	780	790
800				
TCCAAACAGA AAGTCACCGG TTTGGACTTC ATTCCCTGGGC TCCACCCCCAT				
810	820	830	840	850
CCTGACCTTA TCCAAGATGG ACCAGACACT GGCAGTCTAC CAACAGATCC				
860	870	880	890	900
TCACCAAGTAT GCCTTCCAGA AACGTGATCC AAATATCCAA CGACCTGGAG				

910	920	930	940	950
AACCTCCGGG ATCTTCTCA CGTGTGGCC TTCTCTAAGA GCTGCCACTT				
960	970	980	990	1000
GCCCTGGGcC ACTGGCCTGG AGACCTTGGGA CAGCCTGGGG GGTGTCTGG				
1010	1020	1030	1040	1050
AAGCTTCAGG CTACTCCACA GAGGTGGTGG CCCTGAGCAG GCTGCAGGGG				
1060	1070	1080	1090	1100
TCTCTGCAGG ACATGCTGTG GCAGCTGGAC CTCAGCCCTG GGTGCTGAGG				
1110	1120	1130	1140	1150
1150				
CCTTGAAGGT CACTCTTCCT GCAAGGACTA CGTTAAGGGAA AGGAACCTCTG				
1160	1170	1180	1190	1200
GcTTCCAGGT ATCTCCAGGA TTGAAGAGCA TTGCATGGAC ACCCCTTATC				
1210	HoB 2g F	1220	1230	1240
1250				
CAGGACTCTG TCAATTCCCC TGACTCCTCT AAGCCACTCT TCCAAAGG				

Figure 20B

MOUSE OB STRUCTURE

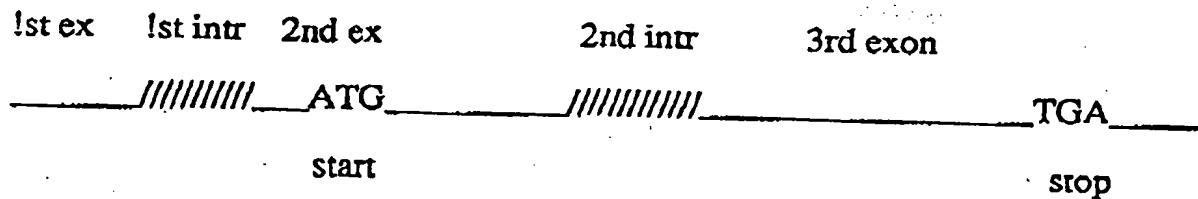


Figure 20c

HUMAN OB STRUCTURE

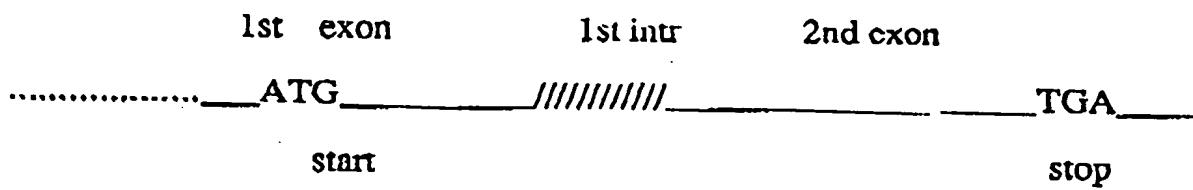


Figure 21A

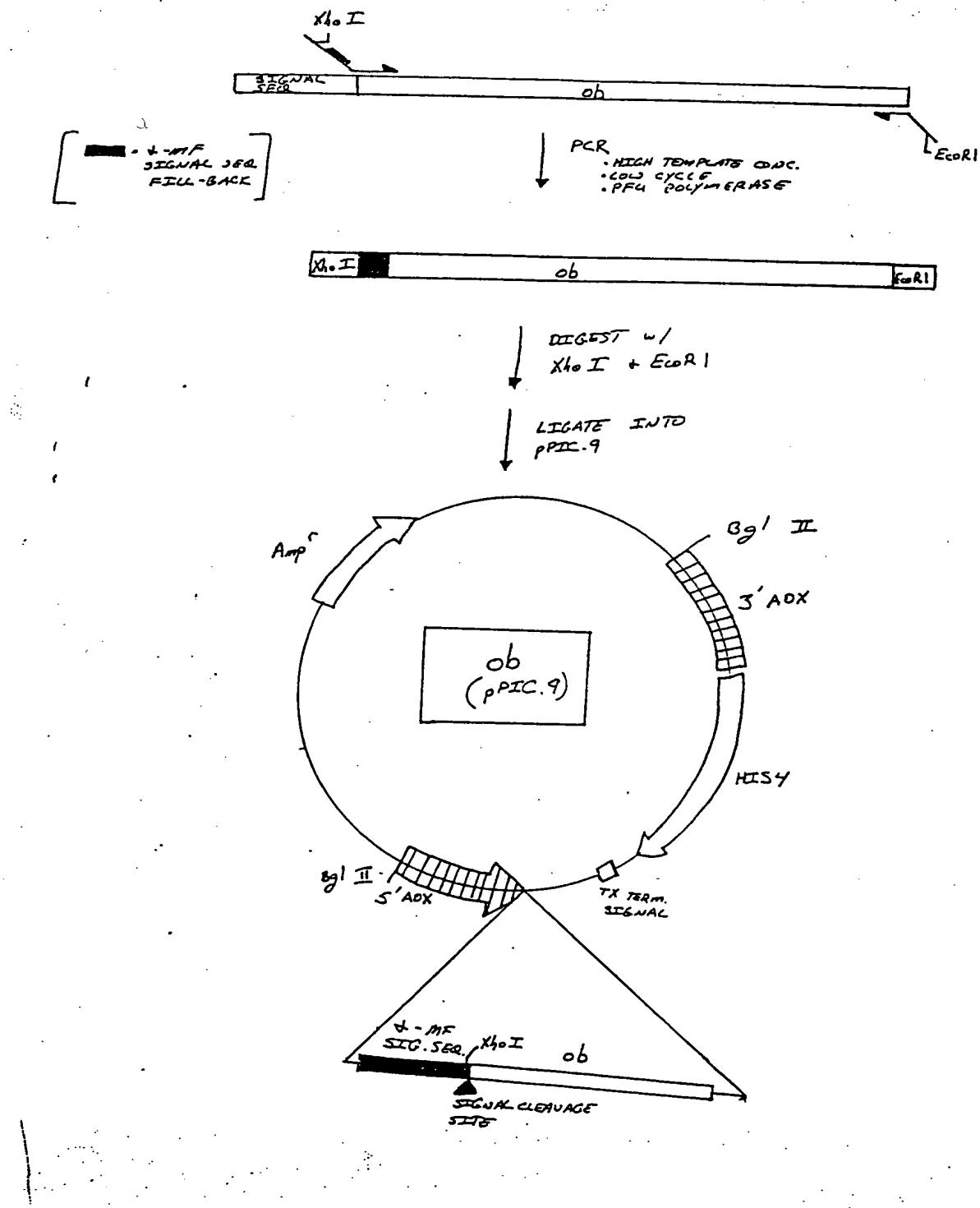


Figure 21 B

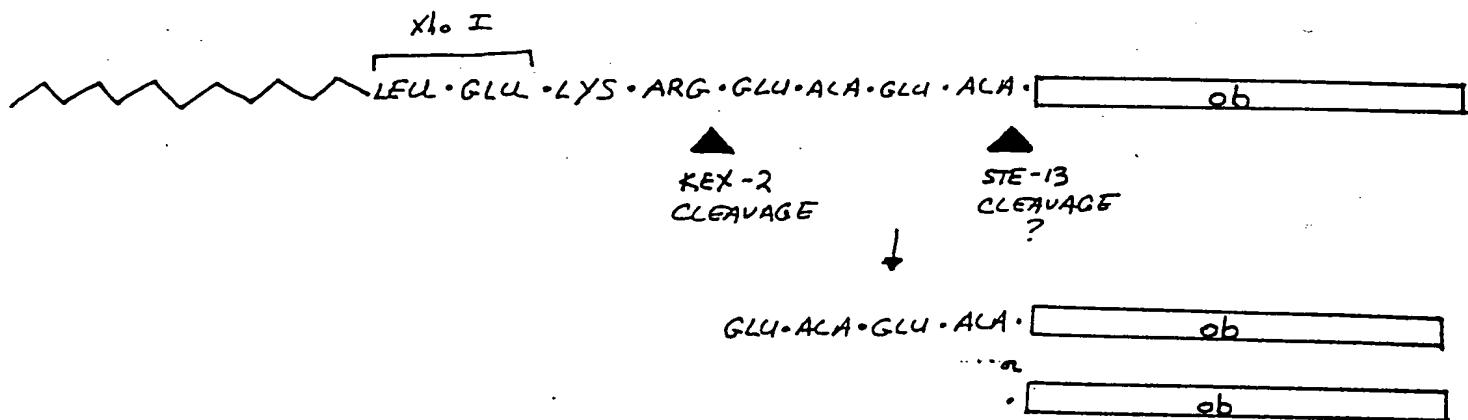


Figure 21 c

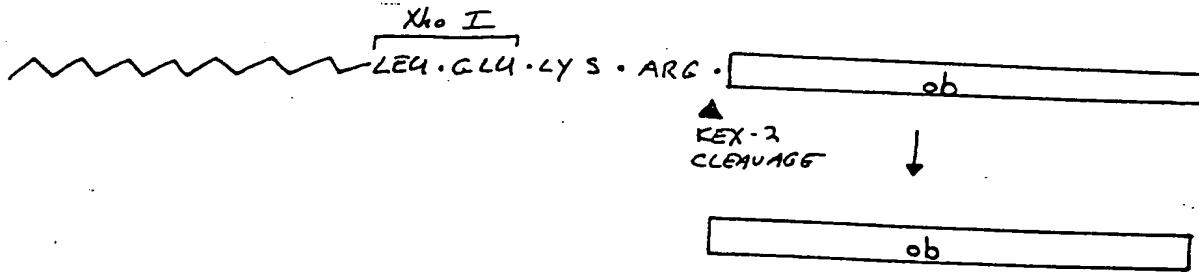
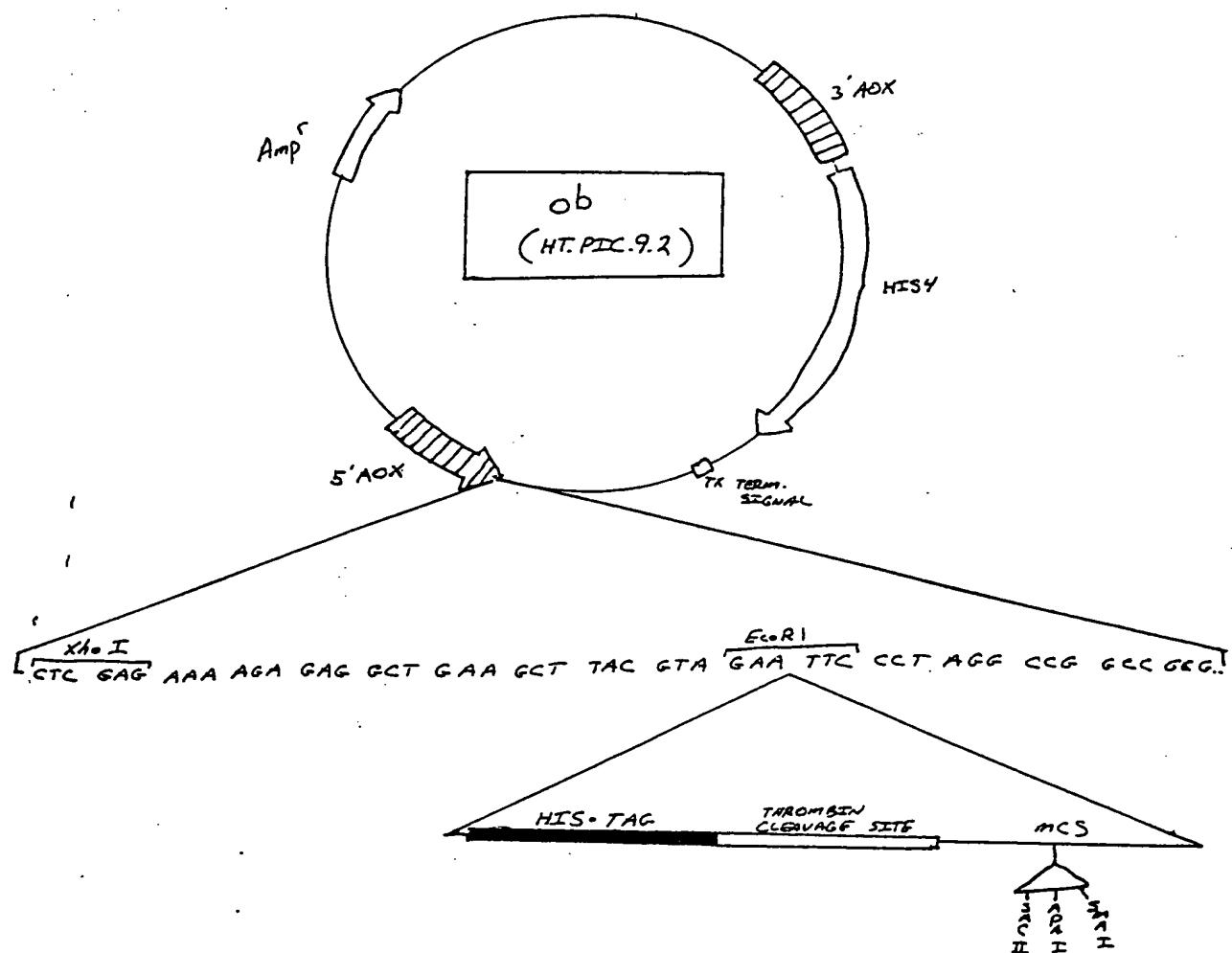
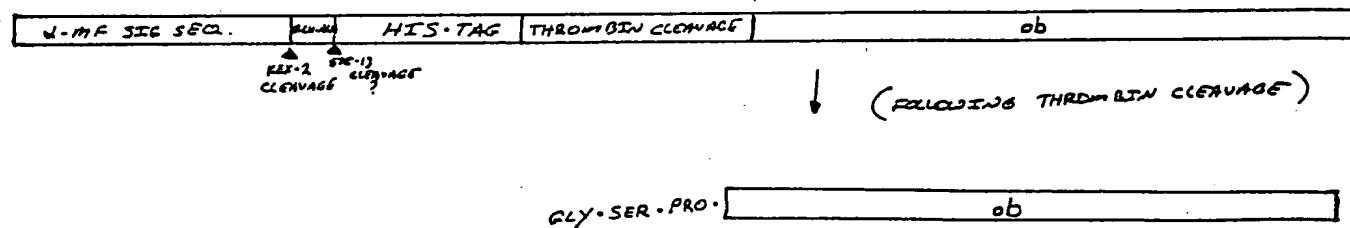


Figure 22A



600-1-087 CIP (Sheet 30 of 31)

Figure 22B



600-1-087 LIP (Sheet 31 of 31)

Figure 23A.

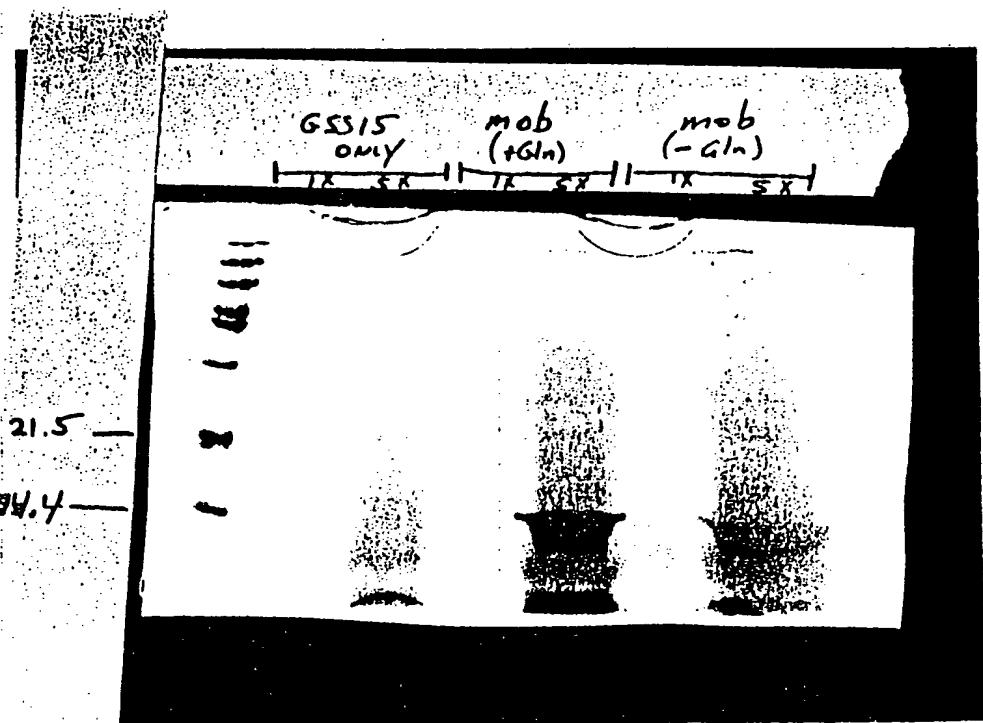


Figure 23B

